

FIG.2

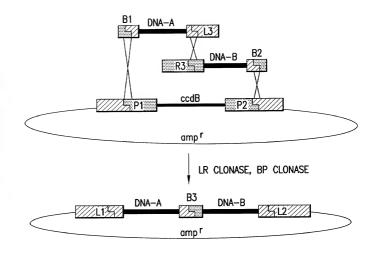


FIG.3

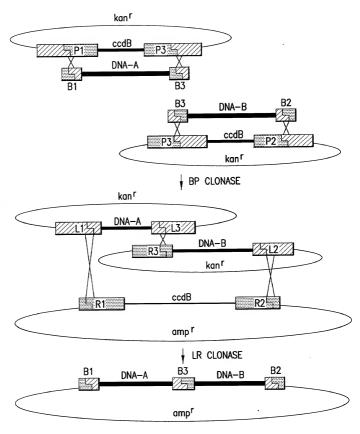


FIG.4

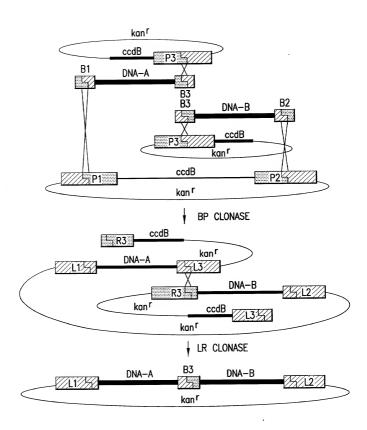


FIG.5

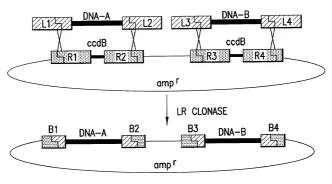


FIG.6

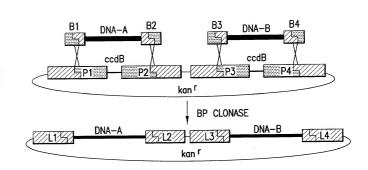


FIG.7

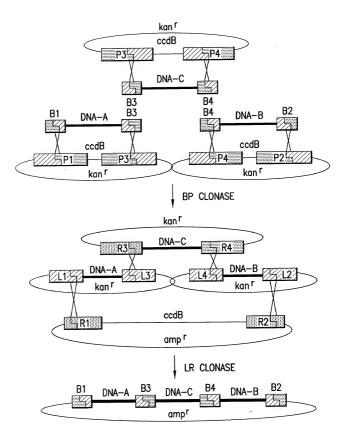


FIG.8

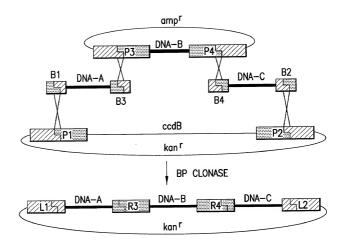


FIG.9

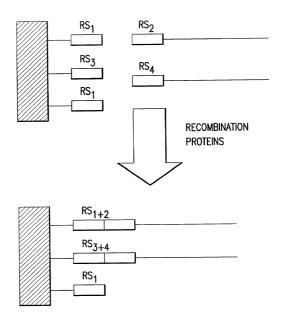
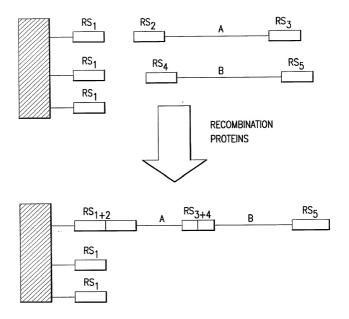


FIG.10



**FIG.11** 

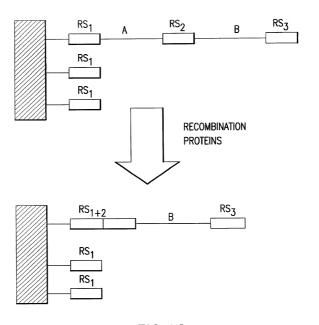


FIG.12

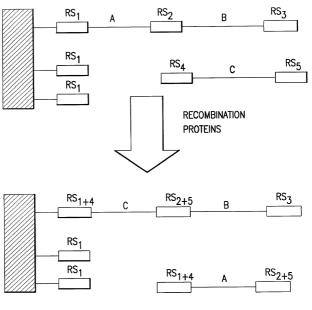
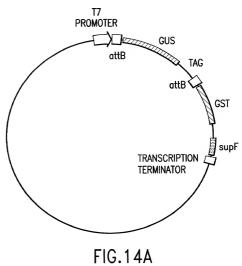
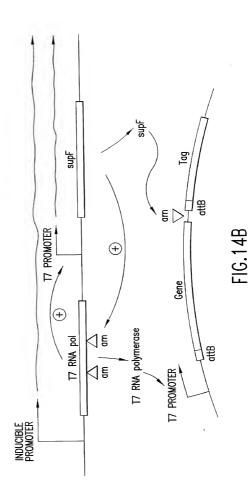
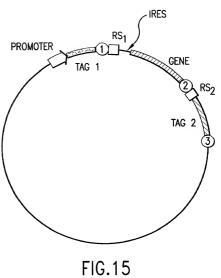
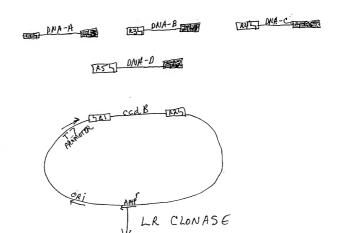


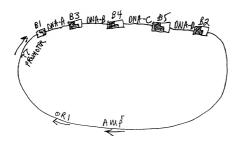
FIG.13



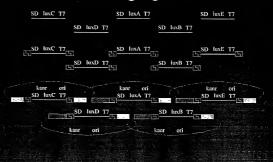






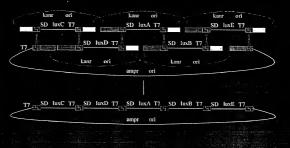


## Cloning Light

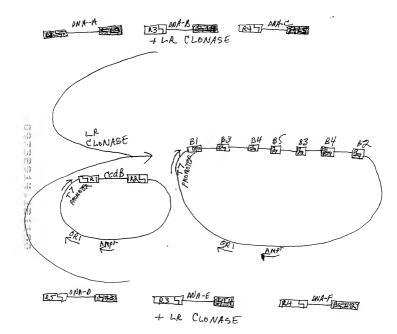


## FIGURE 17B

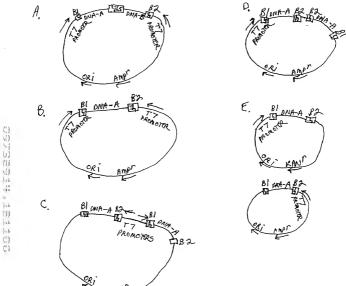
# Cloning Light



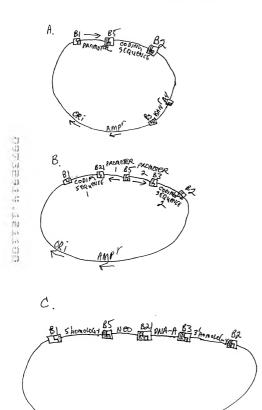
#### FIGURE 18

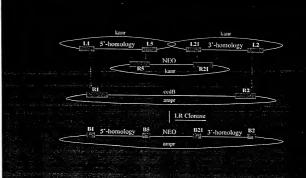


# FIGURE 20

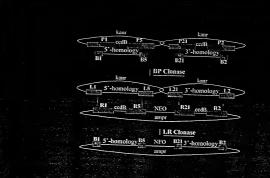


#### FIGURE 21





FIGUR 22 B



#### FIGURE 24A

attB0	AGCCTGCTTT <u>TTTATAC</u> TAACTTGAGC (SEQ ID NO:1) TCGGACGAAAAATATGATTGAACTCG
attP0	GTTCAGCTTT <u>TTTATAC</u> TAAGTTGGCA (SEQ ID NO:2) CAAGTCGAAAAAATATGATTCAACCGT
attL0	AGCCTGCTTT <u>TTTATAC</u> TAAGTTGGCA (SEQ ID NO:3) TCGGACGAAAAAATATGATTCAACCGT
attR0	GTTCAGCTTT <u>TTATAC</u> TAACTTGAGC (SEQ ID NO:4) CAAGTCGAAA <b>AATATG</b> ATTGAACTCG
attB1	AGCCTGCTTT <b>TTGTAC</b> AAACTTGT (SEQ ID NO:5) TCGGACGAAA <b>AAATATG</b> TTTGAACA
attPl	GTTCAGCTTT <u>TTTGTAC</u> AAAGTTGGCA (SEQ ID NO:6) CAAGTCGAAAAAACATGTTTCAACCGT
attL1	AGCCTGCTTT <u>TTTGTAC</u> AAAGTTGGCA (SEQ ID NO:7) TCGGACGAAA <b>AACATG</b> TTTCAACCGT
attR1	GTTCAGCTTT <b>TTTGTAC</b> AAACTTGT (SEQ ID NO:8) CAAGTCGAAA <b>AAACATG</b> TTTGAACA
attB2	ACCCAGCTTTCTTGTACAAAGTGGT (SEQ ID NO:9) TGGGTCGAAAGAATATGTTTCACCA
attP2	GTTCAGCTTT <u>CTTGTAC</u> AAAGTTGGCA (SEQ ID NO:10) CAAGTCGAAAGAACATGTTTCAACCGT
attL2	ACCCAGCTTT <u>CTTGTAC</u> AAAGTTGGCA (SEQ ID NO:11) TGGGTCGAAA <b>GAACATG</b> TTTCAACCGT
attR2	GTTCAGCTTT <u>CTTGTAC</u> AAAGTGGT (SEQ ID NO:12) CAAGTCGAAA <b>GAACATG</b> TTTGACCA
attB5	CAACTTT <b>ATTATAC</b> AAAGTTGT (SEQ ID NO:13) GTTGAAA <b>TAATATG</b> TTTCAACA
attP5	GTTCAACTTT <u>ATTATAC</u> AAAGTTGGCA (SEQ ID NO:14) CAAGTTGAAA <b>TAATATG</b> TTTCAACCGT

#### FIGURE 24B

attL5	CAACTTTA <u>TTATAC</u> AAAGTTGGCA (SEQ ID NO:15) GTTGAAATAATATGTTTCAACCGT
attR5	GTTCAACTTTATTATACAAAGTTGT (SEQ ID NO:16) CAAGTTGAAATAATATGTTTCAACA
attB11	CAACTTT <u>TCTATAC</u> AAAGTTGT (SEQ ID NO:17) GTTGAAA <b>AGATAT</b> GTTTCAACA
attP11	GTTCAACTTT <u>TCTATAC</u> AAAGTTGGCA (SEQ ID NO:18) CAAGTTGAAAA <b>GATATG</b> TTTCAACCGT
attL11	CAACTTT <u>TCTATAC</u> AAAGTTGGCA (SEQ ID NO:19) GTTGAAA <b>AGATATG</b> TTTCAACCGT
attR11	GTTCAACTTT <b>TCTATAC</b> AAAGTTGT (SEQ ID NO:20) CAAGTTGAAA <b>AGATATG</b> TTTCAACA
attB17	CAACTTT <u>TGTATAC</u> AAAGTTGT (SEQ ID NO:21) GTTGAAAACATATGTTTCAACA
attP17	GTTCAACTTT <u>TGTATAC</u> AAAGTTGGCA (SEQ ID NO:22) CAAGTTGAAA <b>ACATATG</b> TTTCAACCGT
attL17	CAACTTT <u>TGTATAC</u> AAAGTTGGCA (SEQ ID NO:23) GTTGAAA <b>ACATATG</b> TTTCAACCGT
attR17	GTTCAACTTT <b>TGTATAC</b> AAAGTTGT (SEQ ID NO:24) CAAGTTGAAA <b>ACATATG</b> TTTCAACA
attB19	CAACTTT <u>TTCGTAC</u> AAAGTTGT (SEQ ID NO:25) GTTGAAA <b>AAGCATG</b> TTTCAACA
attP19	GTTCAACTTT <u>TCGTAC</u> AAAGTTGGCA (SEQ ID NO:26) CAAGTTGAAA <b>AAGCATG</b> TTTCAACCGT
attL19	CAACTTT <u>TCGTAC</u> AAAGTTGGCA (SEQ ID NO:27) GTTGAAA <b>AAGCATG</b> TTTCAACCGT
attR19	GTTCAACTTT <b>TTCGTAC</b> AAAGTTGT (SEQ ID NO:28) CAAGTTGAAA <b>AAGCATG</b> TTTCAACA

#### FIGURE 24C

attB20	CAACTTT <u>TTGGTAC</u> AAAGTTGT (SEQ ID NO:29) GTTGAAA <b>AACCATG</b> TTTCAACA	
attP20	GTTCAACTTT <u>TTGGTAC</u> AAAGTTGGCA (SEQ ID NO:30) CAAGTTGAAA <b>AACCATG</b> TTTCAACCGT	
attL20	CAACTTT <b>TTGGTAC</b> AAAGTTGGCA (SEQ ID NO:31) GTTGAAA <b>AACCATG</b> TTTCAACCGT	
attR20	GTTCAACTTT <b>TTGGTAC</b> AAAGTTGT (SEQ ID NO:32) CAAGTTGAAA <b>AACCATG</b> TTTCAACA	
attB21	CAACTTT <u>TTAATAC</u> AAAGTTGT (SEQ ID NO:33) GTTGAAA <b>AATTATG</b> TTTCAACA	
attP21	GTTCAACTTT <u>TTAATAC</u> AAAGTTGGCA (SEQ ID NO:34) CAAGTTGAAA <b>AATTATG</b> TTTCAACCGT	
attL21	CAACTTT <u>TTAATAC</u> AAAGTTGGCA (SEQ ID NO:35) GTTGAAA <b>AATTATG</b> TTTCAACCGT	
attR21	GTTCAACTTT <u>TTAATAC</u> AAAGTTGT (SEQ ID NO:36)	

# Vector Assembly Using Modular Vector Element Entry Clones

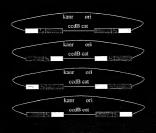


FIGURE 25B

Vector Assembly Using Modular Vector Element Entry Clones

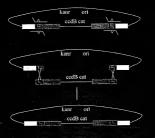


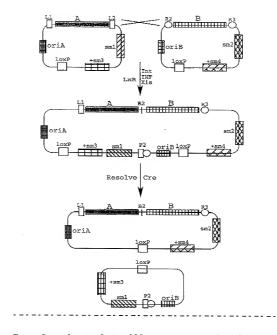
# Construction of attP Plasmids



# FIGURE 26B

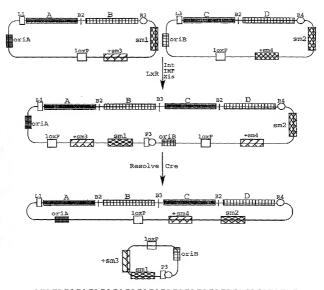
# Construction of attP Plasmids





Transform host that will support replication of oriA but not oriB and moreover, is sensitive to +sm3 but resistant to +sm4.

FIGURE 27A



Transform host that will support replication of oriA but not oriB and moreover, is sensitive to +sm3 but resistant to +sm4.

FIGURE 27B